

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 09/743,684B  
Source: 1Fw16  
Date Processed by STIC: 2/6/09

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 02/06/2007

PATENT APPLICATION: US/09/743,684B

TIME: 10:57:49

Input Set : A:\89188-0130.ST25.txt

Output Set: N:\CRF4\02062007\I743684B.raw

3 <110> APPLICANT: GILL, PARKASH S.  
 5 <120> TITLE OF INVENTION: NOVEL INHIBITORS OF ANGIOGENESIS AND TUMOR GROWTH  
 7 <130> FILE REFERENCE: 89188.0130  
 9 <140> CURRENT APPLICATION NUMBER: US 09/743,684B  
 10 <141> CURRENT FILING DATE: 2001-04-23  
 12 <150> PRIOR APPLICATION NUMBER: PCT/US99/15772  
 13 <151> PRIOR FILING DATE: 1999-07-12  
 15 <150> PRIOR APPLICATION NUMBER: US 60/092,647  
 16 <151> PRIOR FILING DATE: 1998-07-13  
 18 <160> NUMBER OF SEQ ID NOS: 63  
 20 <170> SOFTWARE: PatentIn version 3.4  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 524  
 24 <212> TYPE: PRT  
 25 <213> ORGANISM: Homo sapiens  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: prosaposin  
 30 <220> FEATURE:  
 31 <221> NAME/KEY: PEPTIDE  
 32 <222> LOCATION: (195)..(275)  
 33 <223> OTHER INFORMATION: Saposin B  
 35 <400> SEQUENCE: 1  
 37 Met Tyr Ala Leu Phe Leu Leu Ala Ser Leu Leu Gly Ala Ala Leu Ala  
 38 1 5 10 15  
 40 Gly Pro Val Leu Gly Leu Lys Glu Cys Thr Arg Gly Ser Ala Val Trp  
 41 20 25 30  
 43 Cys Gln Asn Val Lys Thr Ala Ser Asp Cys Gly Ala Val Lys His Cys  
 44 35 40 45  
 46 Leu Gln Thr Val Trp Asn Lys Pro Thr Val Lys Ser Leu Pro Cys Asp  
 47 50 55 60  
 49 Ile Cys Lys Asp Val Val Thr Ala Ala Gly Asp Met Leu Lys Asp Asn  
 50 65 70 75 80  
 52 Ala Thr Glu Glu Glu Ile Leu Val Tyr Leu Glu Lys Thr Cys Asp Trp  
 53 85 90 95  
 55 Leu Pro Lys Pro Asn Met Ser Ala Ser Cys Lys Glu Ile Val Asp Ser  
 56 100 105 110  
 58 Tyr Leu Pro Val Ile Leu Asp Ile Ile Lys Gly Glu Met Ser Arg Pro  
 59 115 120 125  
 61 Gly Glu Val Cys Ser Ala Leu Asn Leu Cys Glu Ser Leu Gln Lys His  
 62 130 135 140  
 64 Leu Ala Glu Leu Asn His Gln Lys Gln Leu Glu Ser Asn Lys Ile Pro  
 65 145 150 155 160  
 67 Glu Leu Asp Met Thr Glu Val Val Ala Pro Phe Met Ala Asn Ile Pro

*see p. 6*

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68          165          170          175
70 Leu Leu Leu Tyr Pro Gln Asp Gly Pro Arg Ser Lys Pro Gln Pro Lys
71          180          185          190
73 Asp Asn Gly Asp Val Cys Gln Asp Cys Ile Gln Met Val Thr Asp Ile
74          195          200          205
76 Gln Thr Ala Val Arg Thr Asn Ser Thr Phe Val Gln Ala Leu Val Glu
77 210          215          220
79 His Val Lys Glu Glu Cys Asp Arg Leu Gly Pro Gly Met Ala Asp Ile
80 225          230          235          240
82 Cys Lys Asn Tyr Ile Ser Gln Tyr Ser Glu Ile Ala Ile Gln Met Met
83          245          250          255
85 Met His Met Gln Pro Lys Glu Ile Cys Ala Leu Val Gly Phe Cys Asp
86          260          265          270
88 Glu Val Lys Glu Met Pro Met Gln Thr Leu Val Pro Ala Lys Val Ala
89          275          280          285
91 Ser Lys Asn Val Ile Pro Ala Leu Glu Leu Val Glu Pro Ile Lys Lys
92          290          295          300
94 His Glu Val Pro Ala Lys Ser Asp Val Tyr Cys Glu Val Cys Glu Phe
95 305          310          315          320
97 Leu Val Lys Glu Val Thr Lys Leu Ile Asp Asn Asn Lys Thr Glu Lys
98          325          330          335
100 Glu Ile Leu Asp Ala Phe Asp Lys Met Cys Ser Lys Leu Pro Lys Ser
101          340          345          350
103 Leu Ser Glu Glu Cys Gln Glu Val Val Asp Thr Tyr Gly Ser Ser Ile
104          355          360          365
106 Leu Ser Ile Leu Leu Glu Glu Val Ser Pro Glu Leu Val Cys Ser Met
107          370          375          380
109 Leu His Leu Cys Ser Gly Thr Arg Leu Pro Ala Leu Thr Val His Val
110 385          390          395          400
112 Thr Gln Pro Lys Asp Gly Gly Phe Cys Glu Val Cys Lys Lys Leu Val
113          405          410          415
115 Gly Tyr Leu Asp Arg Asn Leu Glu Lys Asn Ser Thr Lys Gln Glu Ile
116          420          425          430
118 Leu Ala Ala Leu Glu Lys Gly Cys Ser Phe Leu Pro Asp Pro Tyr Gln
119          435          440          445
121 Lys Gln Cys Asp Gln Phe Val Ala Glu Tyr Glu Pro Val Leu Ile Glu
122          450          455          460
124 Ile Leu Val Glu Val Met Asp Pro Ser Phe Val Cys Leu Lys Ile Gly
125 465          470          475          480
127 Ala Cys Pro Ser Ala His Lys Pro Leu Leu Gly Thr Glu Lys Cys Ile
128          485          490          495
130 Trp Gly Pro Ser Tyr Trp Cys Gln Asn Thr Glu Thr Ala Ala Gln Cys
131          500          505          510
133 Asn Ala Val Glu His Cys Lys Arg His Val Trp Asn
134          515          520
137 <210> SEQ ID NO: 2
138 <211> LENGTH: 81
139 <212> TYPE: PRT
140 <213> ORGANISM: Homo sapiens

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Input Set : A:\89188-0130.ST25.txt

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142 <220> FEATURE:
143 <223> OTHER INFORMATION: Saposin B
145 <400> SEQUENCE: 2
147 Gly Asp Val Cys Gln Asp Cys Ile Gln Met Val Thr Asp Ile Gln Thr
148   1           5           10           15
150 Ala Val Arg Thr Asn Ser Thr Phe Val Gln Ala Leu Val Glu His Val
151           20           25           30
153 Lys Glu Glu Cys Asp Arg Leu Gly Pro Gly Met Ala Asp Ile Cys Lys
154           35           40           45
156 Asn Tyr Ile Ser Gln Tyr Ser Glu Ile Ala Ile Gln Met Met Met His
157           50           55           60
159 Met Gln Pro Lys Glu Ile Cys Ala Leu Val Gly Phe Cys Asp Glu Val
160 65           70           75           80
162 Lys
165 <210> SEQ ID NO: 3
166 <211> LENGTH: 33
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Description of Artificial Sequence: 5' primer for
172     amplifying Saposin B cDNA
174 <400> SEQUENCE: 3
176 attcgaattc aaggggacgt ttgccaggac tgc 33
179 <210> SEQ ID NO: 4
180 <211> LENGTH: 33
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: 3' primer for
186     amplifying Saposin B cDNA
188 <400> SEQUENCE: 4
190 ttctgtgatg aggtgaaata gctcgagctc gag 33
193 <210> SEQ ID NO: 5
194 <211> LENGTH: 36
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Description of Artificial Sequence: 5' primer for
200     PCR amplification of Prosaposin
202 <400> SEQUENCE: 5
204 ctagatctag aaatgtacgc cctcttcctc ctggcc 36
207 <210> SEQ ID NO: 6
208 <211> LENGTH: 36
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Description of Artificial Sequence: 3' primer for
214     PCR amplification of Prosaposin
216 <400> SEQUENCE: 6

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## RAW SEQUENCE LISTING

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Input Set : A:\89188-0130.ST25.txt

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218 ctcgagctcg agctagttcc acacatggcg tttgca 36  
221 <210> SEQ ID NO: 7  
222 <211> LENGTH: 33  
223 <212> TYPE: DNA  
224 <213> ORGANISM: Artificial Sequence  
226 <220> FEATURE:  
227 <223> OTHER INFORMATION: Description of Artificial Sequence: 5' primer for  
228 PCR amplification of Saposin A  
230 <400> SEQUENCE: 7  
232 ctagatctag aatcccttcc ctgcgacata tcc 33  
235 <210> SEQ ID NO: 8  
236 <211> LENGTH: 36  
237 <212> TYPE: DNA  
238 <213> ORGANISM: Artificial Sequence  
240 <220> FEATURE:  
241 <223> OTHER INFORMATION: Description of Artificial Sequence: 3' primer for  
242 PCR amplification of Saposin A  
244 <400> SEQUENCE: 8  
246 ctcgagctcg agtcacttct ggagagactc gcagag 36  
249 <210> SEQ ID NO: 9  
250 <211> LENGTH: 33  
251 <212> TYPE: DNA  
252 <213> ORGANISM: Artificial Sequence  
254 <220> FEATURE:  
255 <223> OTHER INFORMATION: Description of Artificial Sequence: 5' primer for  
256 PCR amplification of Saposin C  
258 <400> SEQUENCE: 9  
260 ctagatctag aatctgatgt ttactgtgag gtg 33  
263 <210> SEQ ID NO: 10  
264 <211> LENGTH: 36  
265 <212> TYPE: DNA  
266 <213> ORGANISM: Artificial Sequence  
268 <220> FEATURE:  
269 <223> OTHER INFORMATION: Description of Artificial Sequence: 3' primer for  
270 PCR amplification of Saposin C  
272 <400> SEQUENCE: 10  
274 ctcgagctcg agtcatgcca gagcagaggt gcagca 36  
277 <210> SEQ ID NO: 11  
278 <211> LENGTH: 33  
279 <212> TYPE: DNA  
280 <213> ORGANISM: Artificial Sequence  
282 <220> FEATURE:  
283 <223> OTHER INFORMATION: Description of Artificial Sequence: 5' primer for  
284 PCR amplification of Saposin D  
286 <400> SEQUENCE: 11  
288 ctagatctag aagacggtgg cttctgcgaa gtg 33  
291 <210> SEQ ID NO: 12  
292 <211> LENGTH: 36  
293 <212> TYPE: DNA

## RAW SEQUENCE LISTING

DATE: 02/06/2007

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TIME: 10:57:49

Input Set : A:\89188-0130.ST25.txt

Output Set: N:\CRF4\02062007\I743684B.raw

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294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Description of Artificial Sequence: 3' primer for
298     PCR amplification of Saposin D
300 <400> SEQUENCE: 12
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305 <210> SEQ ID NO: 13
306 <211> LENGTH: 15
307 <212> TYPE: PRT
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Description of Artificial Sequence: anti-angiogenic
312     polypeptide
314 <400> SEQUENCE: 13
316 Gln Pro Lys Asp Asn Gly Asp Val Cys Gln Asp Cys Ile Gln Val
317   1             5             10             15
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321 <211> LENGTH: 17
322 <212> TYPE: PRT
323 <213> ORGANISM: Artificial Sequence
325 <220> FEATURE:
326 <223> OTHER INFORMATION: Description of Artificial Sequence: anti-angiogenic
327     polypeptide
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331 Ile Gln Met Val Thr Asp Ile Gln Thr Ala Val Arg Thr Asn Ser Thr
332   1             5             10             15
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337 <210> SEQ ID NO: 15
338 <211> LENGTH: 17
339 <212> TYPE: PRT
340 <213> ORGANISM: Artificial Sequence
342 <220> FEATURE:
343 <223> OTHER INFORMATION: Description of Artificial Sequence: S23-R39
344     anti-angiogenic polypeptide
346 <400> SEQUENCE: 15
348 Ser Thr Phe Val Gln Ala Leu Val Glu His Val Lys Glu Glu Cys Asp
349   1             5             10             15
351 Arg
354 <210> SEQ ID NO: 16
355 <211> LENGTH: 14
356 <212> TYPE: PRT
357 <213> ORGANISM: Artificial Sequence
359 <220> FEATURE:
360 <223> OTHER INFORMATION: Description of Artificial Sequence: anti-angiogenic
361     polypeptide
363 <400> SEQUENCE: 16
365 Cys Asp Arg Leu Gly Pro Gly Met Ala Asp Lys Asn Tyr Ser
366   1             5             10
369 <210> SEQ ID NO: 17

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/743,684BDATE: 02/06/2007  
TIME: 10:57:50Input Set : A:\89188-0130.ST25.txt  
Output Set: N:\CRF4\02062007\I743684B.raw**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:44; Xaa Pos. 1,2,3,4,5,6,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26  
Seq#:44; Xaa Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45  
Seq#:44; Xaa Pos. 46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64  
Seq#:44; Xaa Pos. 65,66,67,68,69,70  
Seq#:45; Xaa Pos. 1,2,3,4,5,6,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26  
Seq#:45; Xaa Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45  
Seq#:45; Xaa Pos. 46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64  
Seq#:45; Xaa Pos. 65,66,67,68,69,70  
Seq#:46; Xaa Pos. 6,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29  
Seq#:46; Xaa Pos. 30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48  
Seq#:46; Xaa Pos. 49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67  
Seq#:46; Xaa Pos. 68,69,70  
Seq#:47; Xaa Pos. 1,2,3,4,5,6,12,13,14,15,16  
Seq#:48; Xaa Pos. 1,2,3,4,5,6  
Seq#:49; Xaa Pos. 2,3,4,5,6,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27  
Seq#:49; Xaa Pos. 28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
Seq#:49; Xaa Pos. 47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65  
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Seq#:52; Xaa Pos. 66,67,68,69,70  
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Seq#:54; Xaa Pos. 1,2,3,4,5,6,12,13,14,15,16  
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Seq#:56; Xaa Pos. 1,2,3,4,5,6,12,14,15,16  
Seq#:57; Xaa Pos. 1,2,3,4,5,6,12,13,15,16  
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Seq#:59; Xaa Pos. 1,2,3,4,5,6,12,13,14,15

## VERIFICATION SUMMARY

DATE: 02/06/2007

PATENT APPLICATION: US/09/743,684B

TIME: 10:57:50

Input Set : A:\89188-0130.ST25.txt

Output Set: N:\CRF4\02062007\I743684B.raw

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L:884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0  
L:887 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:16  
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L:893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:48  
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L:949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0  
L:980 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
L:983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:16  
L:986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:32  
L:989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:48  
L:992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:64  
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L:1032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:16  
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L:1090 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:64  
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L:1388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0  
L:1424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0